Maximum Permissible Exposure Evaluation

FCC ID: 2AOSK-CUH01

1. Client Information

Applicant	:	iDoc Holdings, Inc.
Address	:	1951 NW 7th Avenue, Suite #300, Miami, FL 33136
Manufacturer	:	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	:	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen, China

2. General Description of EUT

EUT Name	:	Android tablet	
Models No.	:	WF3202T-B01, WF240XT-XYY, WF270XT-XYY, WF320XT-XYY, WF430XT-XYY, WF550XT-XYY(The 1st X is "0-9",and T is "A~Z" represent the software version; The 2nd X is A-Z represents the color; YY is client number from "01" to "50"）	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is software version, color and client number.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz Bluetooth 4.0(BLE): 2402MHz~2480MHz
		Number of Channel:	802.11b/g/n(HT20): 11 channels Bluetooth 4.0(BLE): 40 channels
		RF Output Power:	802.11b: 17.50 dBm 802.11g: 15.67 dBm 802.11n (HT20): 14.59 dBm BLE: 4.324 dBm
		Antenna Gain:	1.14 dBi FPC Antenna
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM) BLE: GFSK
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n:up to 150Mbps BLE: 1Mbps
Power Supply	:	DC Voltage supplied by DC Adapter	
Power Rating	:	AC/DC Adapter(NBS65A120500BS): Input:100-240V~, 50/60Hz, 1.5A Output: DC 12V, 5A	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Note: More information about the RF function, please refer the RF test reports.			

MPE Calculations for WiFi

1. **Antenna Gain:**
   FPC Antenna: 1.14dBi.

2. **EUT Operation Condition:**
   Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. **Exposure Evaluation:**
   Equation from page 18 of OET Bulletin 65, Edition 97-01
   $S=(PG)/4\pi R^2$
   Where
   S: power density
   P: power input to the antenna
   G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
   R: distance to the center of radiation of the antenna

4. **Test Result:**

Worst Maximum MPE Result								
Mode	N_{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm^2) [S]
802.11b	1	2412	16.77	17±1	18	1.14	20	0.0130
		2437	17.50	17±1	18	1.14	20	0.0130
		2462	17.06	17±1	18	1.14	20	0.0130
802.11g	1	2412	15.44	15±1	16	1.14	20	0.0103
		2437	15.67	15±1	16	1.14	20	0.0103
		2462	15.51	15±1	16	1.14	20	0.0103
802.11n (HT20)	1	2412	14.01	14±1	15	1.14	20	0.0082
		2437	14.59	14±1	15	1.14	20	0.0082
		2462	14.50	14±1	15	1.14	20	0.0082
BLE	1	2402	4.324	4±1	5	1.14	20	0.0008
		2442	4.293	4±1	5	1.14	20	0.0008
		2480	4.297	4±1	5	1.14	20	0.0008

Note:
(1) N_{TX}= Number of Transmit Antennas
(2) RF Output power specifies that Maximum Conducted Peak Output Power.

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/cm^2)
300-1,500	F/1500
1,500-100,000	1.0

1500-100000MHz:
MPE limit S: 1 mW/cm^2
The MPE is calculated as 0.0130mW / cm^2 < limit 1 mW / cm^2. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note
For a more detailed features description, please refer to the RF Test Report.

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